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Fee OK

12-27-02  
L. SpruellCERTIFICATE OF FACSIMILE TRANSMISSION

I hereby certify that this correspondence is being transmitted to Group Art Unit 2816, 703-872-8318, addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231

Date: December 4, 2002

Sonia V. McVean  
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**PATENT**  
36856.526

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Yoshinori TAKAHASHI

Art Unit: 2816

Serial No.: 09/901,746

Filed: July 10, 2001

Examiner: H. Nguyen

Title: RESONATOR

**FAX RECEIVED****AMENDMENT**

DEC 04 2002

Assistant Commissioner for Patents  
Washington, D.C. 20231

TECHNOLOGY CENTER 2800

Sir:

In response to the Office Action dated July 9, 2002, the period for response to which has been extended to December 9, 2002, by the accompanying Petition for Two-Month Extension of Time, please amend the above-identified application as follows:

IN THE CLAIMS

Please replace claims 1, 2, 8, 14 and 16 with the following claims:

- ATB Sub
1. A resonator comprising:
    - a multi-layer substrate having an upper and lower surface, and including at least two conductor layers which include at least two grounding conductor layers and a plurality of dielectric layers, one of the at least two grounding conductor layers being disposed on the lower surface of the multi-layer substrate;
    - a strip line disposed between the at least two grounding conductor layers;
    - a microstrip line disposed on the upper surface of said multi-layer substrate; and
    - a through hole formed in said dielectric layers to connect said strip line to said microstrip line;